# Requests

date	First Name	Last Name	Closed
9/6/2004	Dharma	Indurthy	
request		<u>'</u>	
Lines 51-58 will	need to accept 0-10V co	orresponding to 0-1000 Torr, hence	ce 10 mV/Torr.

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date	First Name	Last Name	Closed
10/13/2004	Wally	Kissel	
request		,	
Looks good so fa	r. We might consider chass a parameter. :-) }	nging the parameter page display for	mat from 'long' to 'short' for the BPM devices. (i.e. E:HI602) {or are 7 or 8 significant digits a

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date	First Name	Last Name	Closed
10/14/2004	Bob	Ducar	

Peter Lucas:

Bob, Apparently the Numi toroids are nearly ready to be connected to the control system. One means of connection is via MADC channel. I don't remember if channels are assigned for this purpose. If not, I'm sure they can be. Aisha Ibrahim will make the connections to whatever locations are assigned, and Alan Wehmann will take care of the database. <Peter> Peter,

Bob Ducar:

Assignments in the attached.

E:TOR101 to MADC #44 Channel 47. Digital signal E:TR101D through a 284 module at CC \$70 N15

E:TORTGT to MADC #87 Channel 18. Digital signal E:TRTGTD through a 284 module at CC \$E6 N13

Alan, There are several new things in the attached file - especially MADC assignments including the above. Have one detail to get from Sacha and then I will release it to you for posting and action.

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First Name	Last Name	Closed	
Dharma	Indurthy		
	1		
ou some scale factors la	st weekend, but I need to make o	one addition. On the hadron monitor gas flow only, there needs to be a8V offset, so:	
Itage8V)			
	Dharma	Dharma Indurthy you some scale factors last weekend, but I need to make	Dharma Indurthy  you some scale factors last weekend, but I need to make one addition. On the hadron monitor gas flow only, there needs to be a8V offset, so:

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date	First Name	Last Name	Closed
11/5/2004	Rich	Talaga	
request			
an integrated bdo	t waveform (used in fast tim	ne plotting), the peak value of the wa	6 bdot sensors in two horns and the signal from each sensor forms three outputs to ACNET: veform and the integrated value of the waveform. We would like to display all waveforms change the ACNET names and descriptions as in the attachment (highlighted section).
to correct channel	ls correctly to the analog en	try box. I have made the changes in	est Peter/Alan to make the changes. I assume scaling remains as is. I will leave it up to you the Controls Requirements document under the MADC tab. Changes are for MADC #88 for Channels 38 to 43. Hope this is OK with you.

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date	First Name	Last Name	Closed						
11/6/2004	Dharma	Indurthy							
request	quest								
		scale factors for the supply pressure IMGPR. Please make the changes a	line. The acnet name is E:GASSPLY, and the scale factor should be .635 psi/mV. it your convenience. Thanks.						
Added 11/9:									
	name is E:MGSP for the gas s	supply. Also, I think I gave you an	incorrect offset for E:HMGF. The offset should be -33mV.						

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date	First Name	Last Name	Closed					
11/8/2004	Peter	Lucas	<u>V</u>					
request		ı						
> Bob, the follow	Bob, the following devices are listed as inputs to the permit system but do not have database entries:							
> LETGT2 Mun	nistake here on not updating nam							
71.F1012 WIY II	mstake here on not updating ham	C.						
BPS Inputs tab ha	as been updated.							
Real name is I:K6	6FT2 MADC 65 Channel 18 (T	Chought to be Already Entered)						
	IADC 44 Channel 28 (Not Enter							
> E:LMHV6R M	IADC 44 Channel 29 (Not Entere	ed Yet, But Should Be						
	issed E:LMTSW at MADC 88 C		ntered yet but should be.					
	ADC 79 Channel 19 (Not Enterests is buried in the LCW PLC at M							
	IADC 88 Channel 8 (Not Entere							

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date	First Name	Last Name	Closed
11/8/2004	Sacha	Корр	

2) I would like to request 4 new MADC channels in the AAT racks, which could occupy channels 39-42 of the input box. These are RTD temp monitors we intend to stick right on the detectors (most critical for the hadron monitor, which will get warm).

E:HMRTD hadron monitor RTD

E:MM1RTD muon monitor alcove 1 RTD E:MM2RTD muon monitor alcove 2 RTD E:MM3RTD muon monitor alcove 3 RTD

Sacha, Your request (#2) for additional channels, after thorough review by management, has been granted. The channels are now listed in the attached Controls Requirements document. I trust Peter or Alan will make DB entries upon your supply of scaling information. Dukes

Added 11/9, from Dharma Indurthy:

Hi, Alan.

Here are scale factors for the new ACNET devices (RTD's) for the MADC channels 39-42 with the following names: HMRTD, MM1RTD, MM2RTD, MM3RTD. Each of them is scaled as follows:

Temperature(degrees F) = 1000\*Voltage(V)

Added 11/11, from Dharma Indurthy:

Unfortunately, an ambiguity in our documentation for our meters

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date	First Name	Last Name	Closed
11/9/2004	Dharma	Indurthy	
request	•	1	
You're right, the	name is E:MGSP for th	e gas supply. Also, I think I gave	you an incorrect offset for E:HMGF. The offset should be -33mV.

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date	First Name	Last Name	Closed
11/10/2004	Bob	Ducar	
request			
			anel 28 of MADC 44 (Analog Entry Box at top of Rack MI60226). This channel was
		signed to Channel 47 of the same MA	ADC. (Dallas should check that connection and move to Channel 47.) I have instructed Alan
to make the nece	ssary DB change.		
i			

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date	First Name	Last Name	Closed
11/10/2004	Bob	Ducar	

Ducar: 11/9, telephone call:

E:TOR101, wrong channel, he will send email Check entry for E:TORTGT, see if screwed up E:NHSA, E:NHSB: no reading property?

E:LMHV6O, E:LMHV6R, E:LMBBBP, E:LMTGTT, E:LMTSW loss monitors

E:CPS6NV wrong channel now, Leon has to get to BPS

E:CPS6N

E:CPS6NI get names right

E:CPS65 E:CPS65I

I have noticed an error for the assignment of E:TOR101. It was assigned to Channel 28 of MADC 44 (Analog Entry Box at top of Rack MI60226). This channel was allocated for other purposes. It should be assigned to Channel 47 of the same MADC. (Dallas should check that connection and move to Channel 47.) I have instructed Alan to make the necessary DB change.

I've done these, except for E:NHSA, E:NHSB, where I'm waiting for Steve Hays to indicate any reason why I shouldn't put the reading block in.

E:LMHV6O, E:LMHV6R have the "smell" of gas values, so the scaling is probably wrong. Who can spedify the right values?

Finally, here is a check on what I did for the CPS bulk names:

device descr made

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11/15/2004 Bob Ducar	date	First Name	Last Name	Closed
	11/15/2004	Bob	Ducar	

Some things that remain for new database entries include "orbit verifier" signals and signals down in THSR. The OV signals should be easy to add (if Duane Voy or Peter Prieto have not done so already. They are at MADC 44 Channels 54 to 57 and 59 to 62. Their descriptions are under the MADC tab as usual. I'm sure Peter or Duane could provide the proper scaling. They should be physically hooking up the signals soon.

Signals in THSR are likely more problematical. These are MADC 87 Channels 32 to 46. Hylen or Talaga may be able to help here. Again reference to the right spot under the MADC tab is suggested.

Bob Ducar, 11/23 phone call MADC 44, 54-57, 59-62, horiz, vert pos, intensity Duane Voy should know scaling orbit verificication, BPS inputs

I called Peter Prieto on 11/23 & he said that scaling will be done in "orbit verifier" front end (Duane Voy will put it in, Bob Webber will determine 5th order polynomial for position). I could go ahead and put unit scaling for the MADC output, with units of MM for position and CNTS for intensity.

From Bob, on 11/24: Alan, Yes, I would enter the names in the database with some bogus scaling. This will allow Kent to include in his download for BPS. Dukes

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date	First Name	Last Name	Closed					
11/15/2004	Wally	Kissel						
request	request							
Make sure that the	Make sure that the NuMI devices all use SAVE list #123 (NuMI).							
12/14/04: I've been appropriate.	n conversing with Ken	nt Triplett and he is checking on timing dev	vices. I've given him several lists & he is converting them to save list #123 where					
After some winno E:NHSBSF	wing I have this list of	f devices that need to have their save list #	changed to save list #123: E:HSLI, E:HSLIP, E:NHSAK, E:NHSASF, E:NHSBK,					
I have a separate l	ist for the kicker, but I	'm unsure about I:KPS62A & I:KPS62B b	pelonging there.					

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date	First Name	Last Name	Closed					
11/19/2004	Rich	Talaga						
request	equest							
Since we're using			nt BLM channels (E:H1ALM, E:H2ALM), which are assigned to twinax MADC inputs. 8 channels 50 and 51 to coax inputs? No hurry on this request; I don't anticipate using					
From Bob Ducar:	Reassignment granted - to cha	nnels 10 and 11 of the same MAD	OC. Alan, could you please make the necessary change?					

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date	First Name	Last Name	Closed
11/19/2004	Wally	Kissel	
request		,	
*After giving all the necessary dev	the appropriate device their spices. (i.e. saving the family	save properties, we should consider device saves all its members) One i	building one or more 'family' devices. (see S:165ALL) This is a device that consolidates all might image a device for power supplies, one for timers,*

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date	First Name	Last Name	Closed					
11/22/2004	George	Krafczyk						
request	equest							
E:QD118E). You	George Krafczyk wrote: Could you go into the database and change the error factor gain for all of the 20 KW PEI's. Only two are correct at this time (E:QF117E and C:QD118E). You will notice that Julius has indicated that E:QF121 is incorrect. He means that E:QF121E is the channel that should be 2 amps per volt. Please send us small so that we can check this out on Tuesday evening.							
Just to reiterate C	1 parameter should be 2 and the	C2 parameter should be 1 as is the	ne case of 17 and 18.					
On 11/23 he foun	d out that Steve Hays had done	all bur four of the quads. Julius s	aid that the four not done were 107, 119, 120, 121. It is easy enough to check.					

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date	First Name	Last Name	Closed
11/22/2004	Walter	Jaskierny	

The cable for the Minos near detector power supply has been terminated at both ends for several weeks. The cable has not been connected at the CAMAC crate or MADC; it was felt that this was best done by the Accelerator controls group. The following is the bit information on the control cable termination at the CAMAC C216 Module.

status bit #0 = P.S. remote control

status bit #1 = interlocks complete

status bit #2 = P.S. on

status bit #3 = ground fault

status bit #4 = D.C. over-current

status bit #5 = magnet over-temperature

status bit #6 = current regulate mode

status bit #7 = external reference

status bit #8 = polarity status

scale factor 1.0 Volt = 500 Amps

0 to 10 Volt reference

0 to 10 Volt readout

In addition the power supply needs the standard momentary open or closed contacts for the Off, On, and Reset functions.

It was decided that there was to be no remote control of the reversing switch. The reversing switch status would be readout by both accelerator controls system and the bdot system.

This is probably on the "NuMI" front end.

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date	First Name	Last Name	Closed		
11/23/2004	Bob	Ducar			
request					
	n: Alberto requests a name c BLMs rather than Numi's.	hange for the two permit BLMs	s. He wants E:LMQ608 and E:LMQ612 changed to I:LMQ608 and I:LMQ612 because he feels		
Should I make the	e change or do you want Ala	an to do it.			
monitors. Also E		I timers (if Kent got around to e	ated names that go from E to I. These include E:LMHV6O and E:LMHV6R high voltage entering these devices yet). Descriptions should be modified to take out reference to "NuMI"		
Marv replied bacl	k: Yes, the associated param	neters should also get changed to	o "I:"		

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date	First Name	Last Name	Closed				
11/23/2004	Peter	Lucas					
request							
Left over from re	cord id #5: E:62PEnn This is bu	rried in the LCW PLC at MI-62					

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date	First Name		Last Name	Closed				
11/29/20	Lyn		Winterowd					
request	equest							
	9 Nov 2004 11:30:							
From: Lin W	interowd <wintero< td=""><td>wd@fnal.gov&gt;</td><td></td><td></td></wintero<>	wd@fnal.gov>						
Subject: Erro								
				" <hendricks@fnal.gov>, "Rich Neswold (E-mail)" <neswold@fnal.gov></neswold@fnal.gov></hendricks@fnal.gov>				
	terowd (E-mail)" <	<winterowd@fnal.< p=""></winterowd@fnal.<>	gov>					
Reply-to: wir	nterowd@fnal.gov							
Gentlemen -	we are getting erro	rs on attempts to a	ccess the following devices/prop	perties. Would you please check into this? Thanks!				
E:HT101D	Sett 57 -29 MI3	c00s00 null						
E:HT105D	Sett 57 -29 MI3	c00s00 null						
E:HT107D	Sett 57 -29 MI3	c00s00 null						
E:HT109D	Sett 57 -29 MI3	c00s00 null						
E:HT112D	Sett 57 -29 MI3	c00s00 null						
E:HT114D	Sett 57 -29 MI3	c00s00 null						
E:HT115D	Sett 57 -29 MI3	c00s00 null						
E:HT117D	Sett 57 -29 MI3	c00s00 null						
E:HT119D	Sett 57 -29 MI3	c00s00 null						
E:HT121D	Sett 57 -29 MI3	c00s00 null						
E:VT103D	Sett 57 -29 MI3	c00s00 null						
E:VT106D	Sett 57 -29 MI3	c00s00 null						
E:VT108D	Sett 57 -29 MI3	c00s00 null						

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date	First Name	Last Name	Closed
11/30/2004	Bob	Ducar	

Alan,

I have pulled cables in Pre-Target and Lower Hobbit for Gordon's temperature sensors. Given Dan's schedule, I would not expect these to actually be hooked up for a while yet. I have given the eight channels names and descriptions that can be found in the attached file. Specifically, they are assigned to MADC #88 Channels 19 to 26 in the Target Hall PS Support Room. Rack space is reserved for Dan's chassis.

Please enter these in the DB. Dan can provide scaling info.

On 12/14 Dan Schoo wrote (in response to my query):

They are a special ten channel RTD thermometer chassis.

The scale factor is 10 (0 to 10 volts = 0 to 100 degrees C)

The channel assignments for the MUX are:

Support Room MUX #88

Channel	Device	ACNET Name
19	Q113D*	E:TQD113
20	Q114F	E:TQF114
20 21	Q117F*	E:TQF117
22	H117*	E:TH117
23 24	Q118D	E:TQD118
24	O120D	E:TOD120

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date	First Name	Last Name	Closed				
11/30/2004	George	Krafczyk					
request							
Alan,							
Of course I forgot	to get this information to you	yesterday afternoon.					
1. Change the DO	C ON/OFF status word from OI	K to ON.					
2. Remove the di	gital status line that reads Mag	net Over Temperature and replace	e it with periods as place holders. Remove the words of Hot and OK from this status bit.				
3. Change the tex	at of Safety System to read ESS	6 / Magnet Over Temp (as always	periods should finish a line to guide the eye to the status bit).				
4. Enable the dig	ital alarm block that will allow	us to change the good status word	ds to Green and the bad status to Red among other things.				
I have attached tw	yo gif's that give you QF112's S	Status page as modified by Steve I	Hays and QD111's status page before modification.				
George	George						

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date	First Name	Last Name	Closed				
11/30/2004	Bob	Ducar					
request							
~ ~		, where the reading scaling formula 3200 is 32768. Ratio of 3276.8/1	a is different. One uses 3200 and C1=10, the other uses 3276.8 and C1=102.4255. Usual 02.4255 is 31.99203.				
I talked to Bob Du	icar and Kent Triplett about th	is on 12/1/04, after the run plan me	eeting. Kent volunteered to ask Steve Hays why it was set up this way.				
On 12/10/04 I talk	ed to Steve Hays about this.	There is no particular reason that the	nis was done.				

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date	First Name	Last Name	Closed
12/2/2004	Marv	Olsen	

Date: Thu, 02 Dec 2004 08:29:25 -0600 From: Marvin Olson <Molson@fnal.gov>

Subject: Numi permit BLMs
To: Bob Ducar <ducar@fnal.gov>

I found an error in the data base entries for the two permit BLMs

I:LMQ608 and I:LMQ612.

These two BLMs are true integrators and not lossy log integrators as the rest of Numi's BLMs. Therefore they need to be scaled differently than the others. They should be scaled the same as for example I:66BLMA.

Alan, would you make these corrections.

Also the timing for these are different than the rest of the BLMs.

Alberto, what was the timing plan for these.

I got to thinking and rethinking about the permit BLMs and finally had to go out to MI60 and look at the hardware. The permit BLMs have a true integrator with a modified input for faster response.

So my first message was correct and this is true. These two BLMs are true integrators and not lossy log integrators as the rest of Numi's BLMs. Therefore they need to be scaled differently than the others. They should be scaled the same as for example I:66BLMA. Alan, would you make these corrections.

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date	First Name	Last Name	Closed		
12/8/2004	Rich	Talaga	<b>✓</b>		
request					
Hi Alan,					
		or for MADC 88 Channels 10 and its $X = \text{input (index 22)}$ and comm		.M) from the present config	furation $x = FLOAT(input)/3200$ and $x' = c2$
Thanks,					
Rich					
This was settled	by choosing index 0 for	both transformations (thus 10 vol	ts reads 10 volts)		

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date   First Name   Last Name   Closed   Bob   Ducar   Closed   Cl	
request	
Alan et al,	
With the intent of removing the 3rd "C" power supply from the E:HV101 system, there are a couple of analog signals that should be deleted from cables will be removed by the PS guys.	the database. I trust the
MADC #38, Analog Entry Box at top of Rack MI60219 Channel 18 E:HV01CF Channel 26 E:HV01CU	
Thanks, Dukes	

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date	First Name	Last Name	Closed					
12/15/2004	Kent	Triplett						
request	request							
reading is via cha used for this devi	unnel 0 of MADC87 MI3 crate \$ ce, this nominal is very near the	E6. Page 12 of Duke's Golden Fitop of the defined range. It is clo	rn Stripline Current readback that is monitored by the 204 module named "THA". E:HSLI le shows that this device has an anticipated nominal of 200,000 Amps. Due to the scaling se enough that when a conversion is made for the 204 input (+/- 10.0V), 200,000A exceeds this input. Perhaps we can come up with a solution.					
12/15: I sent this	as well to Rich Talaga and Jim I	Hylen.						

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